

BUILDING CODE COMPLIANCE OFFICE (BCCO) PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA METRO-DADE FLAGLER BUILDING 140 WEST FLAGLER STREET, SUITE 1603 MIAMI, FLORIDA 33130-1563 (305) 375-2901 FAX (305) 375-2908 WWW.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

Sabana Windows, Inc. 6157 NW 167th Street Unit F-25 Miami, FL 33015

Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Sabana" Outswing Wood Casement Window - L. M. I.

APPROVAL DOCUMENT: Drawing No. **05-310**, titled "Mahogany Impact Casement Window", sheets 1 through 11 of 11, dated 9/27/05, prepared by EngCo, Inc., signed and sealed by Pedro De Figueiredo, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA revises NOA # 02-0828.04 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.

NOA No 05-1006.02 Expiration Date: October 07, 2007 Approval Date: May 11, 2006 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

- 1. Manufacturer's parts and section drawings.
- Drawing No. **05-310** titled "Mahogany Impact Casement Window", sheets 1 through 11 of 11, prepared by Engco, Inc., dated 09/27/05, signed and sealed by Pedro De Figueiredo, P.E.

B. TESTS

- 1. Test reports on 1) Large Missile Impact Test, FBC, TAS 201-94
 2) Cyclic Loading Test, per FBC, TAS 203-94
 along with installation diagram of a pair of Ellipse Top Outswing French Wood Doors/Windows (6' x 8') marked-up by Hurricane Engineering & Testing, Inc., Test Report No. HETI-99-799A, dated 03/04/99, signed and sealed by Hector M. Medina, P. E. "Submitted under NOA# 02-0828.04"
- 2. Test reports on 1) Large Missile Impact Test, FBC, TAS 201-94
 2) Cyclic Loading Test, per FBC, TAS 203-94
 along with installation diagram of a pair of Arch Top Outswing French Wood
 Doors/Windows (6' x 8') marked-up by Hurricane Engineering & Testing, Inc., Test
 Report No. HETI-99-799B, dated 03/04/99, signed and sealed by Hector M. Medina, P. E.
 "Submitted under NOA# 02-0828.04"
- 3. Test reports on 1) Large Missile Impact Test, FBC, TAS 201-94

 2) Cyclic Loading Test, per FBC, TAS 203-94

 along with installation diagram of a pair of Square Top Outswing French Wood

 Doors/Windows (6' x 8') marked-up by Hurricane Engineering & Testing, Inc., Test

 Report No. HETI-99-799C, dated 03/04/99, signed and sealed by Hector M. Medina, P. E.

 "Submitted under NOA# 02-0828.04"
- 4. Test reports on 1) Large Missile Impact Test, FBC, TAS 201-94
 2) Cyclic Loading Test, per FBC, TAS 203-94
 along with installation diagram of a pair of Square Top Outswing Raised Panel Wood Door/Windows (6' x 10') marked-up by Hurricane Engineering & Testing, Inc., Test Report No. HETI-99-799D, dated 03/04/99, signed and sealed by Hector M. Medina, P. E. "Submitted under NOA# 02-0828.04"
- 5. Test reports on 1) Air Infiltration Test, per FBC,TAS 202-94
 - 2) Uniform Load Static Air Pressure Test, per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Forced Entry Resistance Test, per FBC,TAS 202-94 along with installation diagram of a pair of Square Top Outswing French Wood Doors/Windows (6' x 8') marked-up by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-99-1136**, dated 03/08/99, signed and sealed by Hector M. Medina, P. E. "Submitted under NOA# 02-0828.04"

0020.07

Manuel Perez P.E. Product Control Division

NOA No 05-1006.02

Expiration Date: October 07, 2007 Approval Date: May 11, 2006

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94 6.
 - 2) Uniform Load Static Air Pressure Test, per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Forced Entry Resistance Test, per FBC, TAS 202-94.

along with installation diagram of a pair of Square Top Outswing Raised Panel Wood Door /Window (6' x 10') marked-up by Hurricane Engineering & Testing, Inc., Test Report No. HETI-99-1137, dated 03/16/99, signed and sealed by Hector M. Medina, P. E. "Submitted under NOA# 02-0828.04"

- Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94 7.
 - 2) Uniform Load Static Air Pressure Test, per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Forced Entry Resistance Test, per FBC, TAS 202-94.

along with installation diagram of a pair of Double Arch French Wood Doors/Windows (75-1/2" w x 120" h) marked-up by Hurricane Engineering & Testing, Inc., Test Report No. HETI-03-1343, dated 10/21/03, signed and sealed by Rafael E. Droz-Seda, P. E. "Submitted under NOA# 02-0520.01"

- 8. Test reports on 1) Large Missile Impact Test, FBC, TAS 201-94
 - 2) Cyclic Loading Test, per FBC, TAS 203-94 along with installation diagram of a pair of Double Arch French Wood Doors/Windows (75-1/2" w x 120" h) marked-up by Hurricane Engineering & Testing, Inc., Test Report No. HETI-03-1846, dated 10/21/03, signed and sealed by Rafael E. Droz-Seda, P. E. "Submitted under NOA# 02-0520.01"

C. **CALCULATIONS**

Revised Anchor Calculations and Structural analysis, complying with FBC 2004, dated 05/28/99, prepared by ENGCO Engineering Services, signed and sealed by Pedro De Figueiredo, P.E. "Submitted under NOA# 02-0828.04" Complies with ASTM E 1300-98

D. **QUALITY ASSURANCE BY**

Miami-Dade Building Code Compliance Office (BCCO). 1.

MATERIAL CERTIFICATIONS E.

Notice of Acceptance No. 03-0916.02, to Nebula Glass International, Inc. for their 1. "Glasslam Safety-Plus Laminated Glass" approved on 10/23/03 and expiring on 09/09/08.

F. **STATEMENTS**

1. None

G. **OTHER**

Notice of Acceptance No. 02-0828.04, issued to Sabana Windows, Inc. for their Outswing 1. Wood Casement Window Impact Resistant, approved on 10/17/02 and expiring on 10/07/07.

> Manuel Perez-Product Control Division NOA No 05-1006.02

Expiration Date: October 07, 2007

Approval Date: May 11, 2006

WIND LOAD DURATION HAVE BEEN USED, APPROVAL, EXCEPT WOOD SCREWS WITH 1, 33 INCREASE FOR USED IN THE DESIGN OF THE ANCHORS FOR THIS PRODUCT 8- 33 INSKEASE IN ALLOWABLE LOADS HAVE NOT BEEN

SPECIFIC PROJECT,

7. 3- THAT THIS APPROVAL IS ADEQUATE TO THE DESIGNED PRESSURES ETC.

BUT NOT LIMITED TO, LOCAL CODE REQUIREMENTS,

7. 2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS IS ID BE ATTACHED INSURING PROPER ANCHORAGE. 7.1- THE STABILITY OF THE STRUCTURE WHERE THE UNIT

VERIFY THE FOLLOWING CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO 7- USE: IT SHALL BE THE RESPONSIBILITY OF THE

AS SPECIFIED IN THIS CURRENT SET OF DRAWINGS. 9- EASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE

SPECIFIED ON THIS APPROVAL,

GLAZING TO BE LAMINATED IMPACT RESISTANT GLASS AS S- MATERIAL: ALL PARTS TO BE MAHOGANY WOOD AND

EXCEED THE ALLOWABLE APPROVED PRESSURE. PROJECT, THE CALCULATED DESIGNED PRESSURE MUST NOT PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC 4- DESIGN LOADS: LOADS MUST BE CALCULATED BY A

DADE COUNTY PRODUCT CONTROL APPROVED. WIAMI LAKES - FLORIDA SABANA WINDOWS, INC. TARGE & SMALL MISSILE IMPACT RESISTANT

WAHDGANY WOOD CASEMENT WINDOW

3- POSTING

IMPACT RESISTANCE, CASEMENT TYPE WINDOW WITH LARGE AND SMALL MISSILE 2- DEFINITION: THIS PRODUCT IS A MAHDGANY WOOD

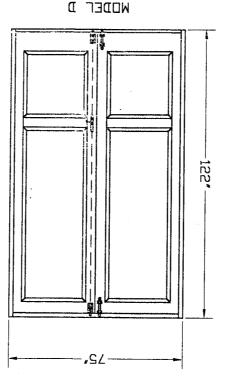
EDITION - (HIGH VELOCITY HURRICANE ZONE), ACCORDANCE WITH THE FLORIDA BUILDING CODE 2004 I- CODE: THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN

GENERAL NOTES:

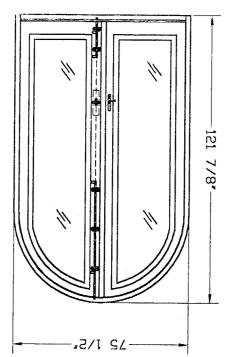
SHEET II OF II - MDDEL E DETAILS SHEET 10 of 11 - MODEL E ELEVATIONS SHEET 9 of 11 - MODEL D DETAILS 8 of 11 - MODEL D ELEVATIONS SHEEL SHEET 7 of 11 - MUDEL C DETAILS 6 of 11 - MODEL C ELEVATIONS SHEET 2 of 11 - MIDEL B DETAILS SHEEL 4 of 11 - MDDEL B ELEVATIONS 3 of 11 - MODEL A DETAILS SHEET S OF 11 - MODEL A ELEVATIONS SHEEL I OL II - GENERAL NOTES & MODEL TYPES

INDEX:

SHEET 8 AND 9 OF 11 FOR MODEL D DETAILS REFER TO DEZIGNED FOWDZ = +23 bZŁ' -30 bZŁ SMING-DOT WINDOW 20/10 MOOD DAMER FRENCH



SHEET 10 AND 11 OF 11 FOR MODEL E DETAILS REFER TO DEZIGNED FOWDZ = +12 bZŁ' -83 bZŁ SMING-DOT WINDOW LOFF ARCHED FRENCH WODER E



Design by: PPMF Scale: NA Date: 9/27/05

Miami Dade Office:

PE 52609 Pedro De Figueiredo Engineer Seal

ÌΟ Sheet

012-50

Drawing Mumber

Mismi Dade Product Control

Expiration Date OCL. 7

PRODUCT REVISED

SO. 3001-30 of sparspassA Buiding Code

2Eb. 5 8 500g

Fax: (954) 585-0305 Tel.: (954) 585-0304 Plantation, Fl. 33313 6971 W. Sunrise Blvd, 104 CA 8116

> Englo Inc. Fugineering:

> > WobniW Casement Impact Mahogany :TOUGOR9

LAX: (305) 855-3805 PH, (305) 825-1256 33012 WIAMI LAKES, FLORIDA NNIL L-52 6157 NW 167TH STREET

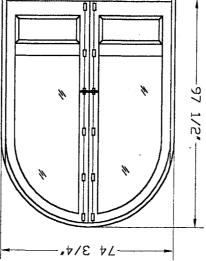
> **swobniW** Sabana **MANUFACTURER:**

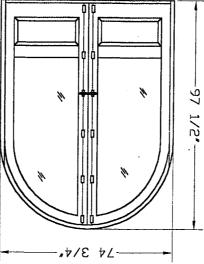
SHEEL 4 WAD 2 DL 11 SHEET 2 AND 3 OF 11 FOR MODEL B DETAILS REFER TO FOR MODEL A DETAILS REFER TO DEZIGNED FOWDZ = +23 bZL' -10 bZL DEZIGNED FOWDZ = +23 bZŁ' -10 bZŁ SMING-OUT WINDOW SMING-DOT WINDOW ENTE ARCHED FRENCH ELLIPSE FRENCH WODER B MDDEL A

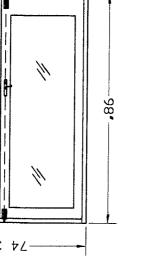
97

7/8"

*8/L 7/







SHEET 6 AND 7 OF 11

FOR MODEL C DETAILS REFER TO:

DEZIGNED FOWDZ = +23 bZŁ' -\0 bZŁ

SWING-DUT WINDOW

20NARE FRENCH

WDDEF C

MANUFACTURER: Sabana ewobniW

LAX:(302) 852-3805 bH':(302) 852-1526 33012 NIAMI LAKES, FLORIDA UNIT F-25 6157 NW 167TH STREET

Casement Mahogany Casement Casement

WobniW

Engineering: Inguering:

CA 8116 6971 W. Sunrise Blvd. 104 Plantation, Fl. 33313 Tel.: (954) 585-0304 Fax: (954) 585-0305

Euglueer Sedi

Engineer Seal Pedro De Figueiredo PE 52609

Design by: PPMF Scale: 9/27/05

Miami Dade Office:

PRODUCT REVISED as complying with the Florida Buiding Code

Acceptance No OS-1006, 0.5

Expiration Date OCT-7.200

By Missel Dade Product Control

Missel Dade Product Control

Drawing Number 05-510

Sheet []

DESIGNED LOADS = +53 PSF, -70 PSF MODEL A - ELLIPSE FRENCH SWING-OUT WINDOW

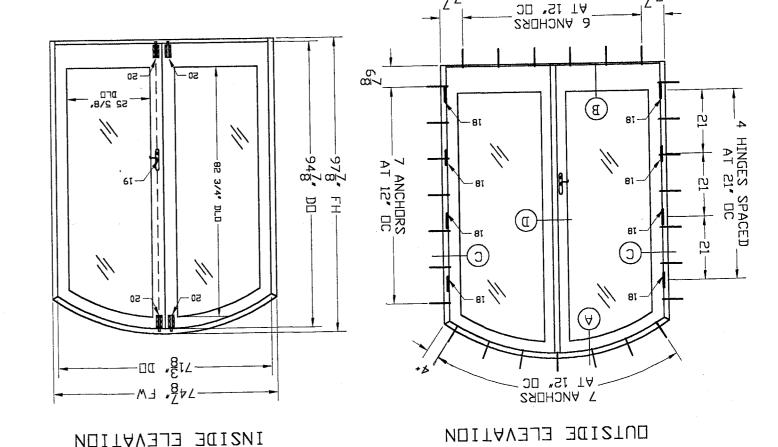
MAX, FRAME SIZE = 74 7/8" X 97 7/8" X 6" DEEP FRAME MAX, GLASS SIZE = 35 5/16" X 84 1/4 X ,511" THICK MAX, GLASS DLO = 25 5/8" X 82 3/4"

WATER TEST PRESSURE: ±8 PSF (53,33 DP)

3- 1X DK SX WOOD BUCK TO BE DESIGNED BY OTHERS FOR IMPOSED LOADS, WOOD (SG)=, 55) 1 1/4"

1- AUCHOR: 1/4" TAPCON BY ELCO

SEE SHEEL 3 OF 11 FOR DETAILS



TRAME HEADER 1, 75 x 6, 00 x 1, 50 MAHDGANY WOOD 1, 75 x 6, 00 x 1, 50 MAHDGANY WOOD 1, 75 x 6, 00 x 2, 50 MAHDGANY WOOD 1, 75 x 6, 00 x 3, 50 MAHDGANY WOOD 1, 75 x 6, 00 x 3, 50 MAHDGANY WOOD 1, 10 x 1, 10			'\017 \	11111
TRAME HEADER 1, 75 x 6, 00 x 1, 50 MAHDGANY WOLD		E 2CHEDNIE	RANTSAH	
	GLASSLAM GE STOCK 012A SCHLEGEL #GEZ320 SCHLEGEL #GEZ320 FLOAM TAPE FULL LENGTH OF SILL Attached W/ #10x 2° wd screws at 12° oc Attached W/ #8x 1 1/2° wd screws Attached W/ #8x 1 1/2° wd screws MAHOGANY MAHOGANY MAHOGANY WOOD MAHOGANY WOOD MAHOGANY WOOD MAHOGANY WOOD MAHOGANY WOOD	'211, THICK '332, x'336, '28, x'926, '28, x'962, '13, x'100, '100, x'90, x'00, '100, x'90, x'90, '13, x'20, x'90, '13, x'20, x'90, '13, x'20, x'20, '14, x'20, x'20, '15, x'20, x'20, '16, x'20, x'20, '17, x'20, x'20, x'20, x'20, '17, x'20,	FRAME SILL SEALANT CLEAR SERD Q'LON SEAL & PANELS RAIL Q'LON SEAL & FRAME/PANELS G'LON FRAME/PANEL	8

HINGES <18>1

(4 HINGES\JAMB) 2 3/4" W X 4" h X, 068" HINGES 2 21" OC CONNECTED TO PANEL AND FRAME WITH (8)

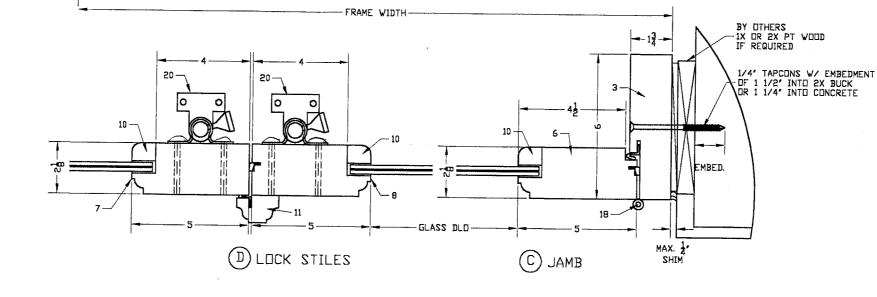
(5 HINGES\JAMB) 2 3/4" W X 4" h X, 068" HINGES 2 21" OC CONNECTED TO PANEL AND FRAME WITH (8)

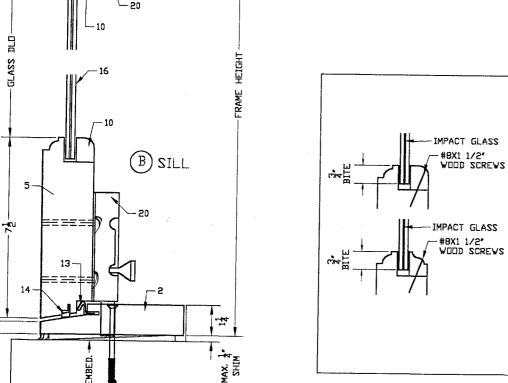
ACTIVE STILE:
<19> SCHELEGEL MULTI-BOLT LOCK WITH BRASS KEEP SET, 52 MM BA 10' FULL LENGTH STAINLESS, THE STRIKE
<19> SCHELEGEL MULTI-BOLT LOCK WITH BRASS KEEP SET, 52 MM BA 10' FULL LENGTH STAINLESS, THE STRIKE

C10> NATIONAL , 611' DIA, THROW CONNECTED WITH (6) 1/4-20 55 MS AND NUTS,

(SO) NATIONAL , 611' DIA, THROW CONNECTED WITH (6) 1/4-20 SS MS AND NUTS.

MODEL A - ELLIPSE FRENCH SWING WINDOW DESIGNED LOADS = +53 PSF, -70 PSF





1/4" TAPCONS W/ EMBEDMENT - OF 1 1/2' INTO 2X BUCK OR 1 1/4' INTO CONCRETE

1/4' TAPCONS W/ EMBEDMENT -DF 1 1/2' INTO 2X BUCK -DR 1 1/4' INTO CONCRETE

(A) HEAD

17

BY DTHERS -1X OR 2X PT WOOD IF REQUIRED

GLASS DESCRIPTION

1- GLASSLAM SAFETY PLUS I - MIAMI-DADE NOA 00-0524, 06

(1) 3/16' ANNEALED GLASS SHEET + (1) . 063' RESIN BY GLASSLAM +

(1) .010' SAFETY-PLUS POLYESTER INTERLAYER +

(1) . 063' RESIN BY GLASSLAM +

(1) 3/16' ANNEALED GLASS SHEET

2- GLAZING METHOD

GLASS GLAZED WITH SILICONE DOW CORNING #995 0.9 X . 051

THICK OVER A 3/4' GLASS BITE.

1 X 3/4' WOOD BEAD WAS CONNECTED TO THE RAILS & STILES WITH #8X 1 1/2' WOOD SCREWS.

BUTTOM RAIL - (5) SCREWS AT 5'DC

TOP RAIL - (5) SCREWS AT 6 1/2' DC LOCK STILE - (11) SCREWS AT 7 1/2' DC

HINGE STILE - (10) SCREWS AT 7 1/8'00

FRAME & PANEL GENERAL NOTES

1- FRAME ASSEMBLY NOTES: EACH SOLID MAHOGANY WOOD FRAME HEAD, SILL & JAMBS ARE 6' DEEP AND THE CORNERS ARE BUTT JOINED WITH WOOD GLUE AND FASTENED WITH (4) #14X3' WOOD SCREWS IN EACH CORNER.

2- PANEL ASSEMBLY NOTES: EACH SOLID MAHOGANY WOOD STILE & RAIL IS 2 1/8' DEEP AND THE CORNERS, 1/2'thick x3'x3' TENON AND WOOD GLUE JOINT,

3- INSTALLATION SEALANT NOTES: THE FRAME AND ALL EXPOSED INSTALLATION FASTENERS MUST BE PROPERLY SEALED WITH "GE" STOCK GEO12A SILICONE.

MANUFACTURER: Sabana Windows

6157 NW 167TH STREET UNIT F-25 MIAMI LAKES, FLORIDA 33015 PH.:(305) 825-1256 FAX: (305) 825-3805

PRODUCT: Mahogany Impact Casement Window

Engineering: EngCo Inc.

CA 8116 6971 W. Sunrise Blvd. 104 Plantation, Fl. 33313 Tel.: (954) 585-0304 Fax: (954) 585-0305



SEP 2 8 2005

Engineer Seal Pedro De Figueiredo PE 52609

Date: 9/27/05 Scale: NA Design by: PPMF

Miami Dade Office:

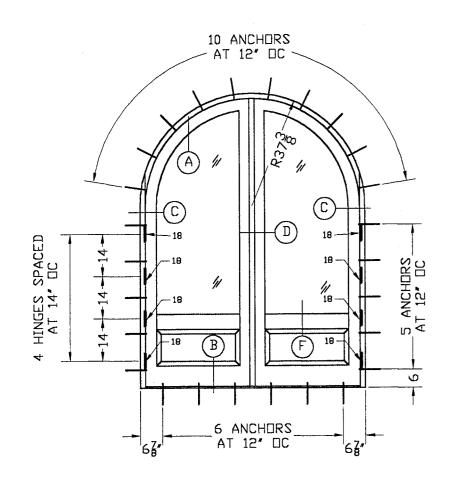
PRODUCT REVISED as complying with the Florida Buiding Code Acceptance No 05-1006 .07 diam Dade Product Control

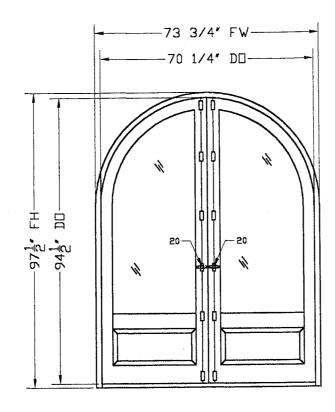
Drawing Number 05 - 310

> Sheet of 11

DUTSIDE ELEVATION

INSIDE ELEVATION





MODEL B - FULL ARCHED FRENCH SWING-OUT WINDOW DESIGNED LOADS = +53 PSF, -70 PSF

MAX. FRAME SIZE = 73 3/4" X 97 1/2"X 6" DEEP FRAME MAX. PANEL SIZE = 36 5/16" X 95 7/16" X 2 1/8" DEEP MAX. GLASS SIZE = 27 1/4" X 84 1/4 X .511" THICK MAX. GLASS DLD = 25 3/4" X 82 3/4" WATER TEST PRESSURE: ±8 PSF (53, 33 DP)

INSTALLATION NOTES:

1- ANCHOR: 1/4' TAPCON BY ELCO SUBSTRATUM EMBEDMENT WOOD (SG)=,55) 1 1/2'

CONCRETE (3320 psi) 1 1/4'
MASUNRY BLOCK 1 1/4'

2- QUANTITY & SPACING AS PER ELEVATION
3- 1X OR 2X WOOD BUCK TO BE DESIGNED BY OTHERS FOR IMPOSED LOADS.

SEE SHEET 5 OF 11 FOR DETAILS

BILL	OF MATERIALS		
ITEM#	DESCRIPTION	SIZE	MATERIAL & REMARKS
1	FRAME HEADER	1. 75" x 6. 00" x 1. 50"	MAHDGANY WOOD
Ž	FRAME SILL	1, 25"x 6, 00"x 0, 50"	MAHDGANY WOOD
3	FRAME JAMB	1, 75" x 6, 00" x 1, 25"	MAHDGANY WOOD
4	PANEL TOP RAIL	2. 13' x 5. 00' x 3. 25'	MAHOGANY WOOD
5	PANEL BOTTOM RAIL	2, 13" x 7, 50" x 6, 13"	MAHOGANY WOOD
6	PANEL HINGE STILE	2, 13" x 5, 00" x 3, 38"	MAHDGANY WOOD
7	PANEL LOCK STILE	2, 13" x 5, 00" x 4, 13"	MAHDGANY
8	RAISED PANEL HOR, STILE	2, 13' x 6, 00' x 5, 00"	MAHDGANY
9	MAHOGANY WOOD BEAD	1.00° × 0.75°	Attached w/ #8x 1 1/2' wd screws
10	MAHOGANY WOOD BEAD	0, 75' x 1, 00'	Attached w/ #8x 1 1/2" wd screws
11	MAHOGANY WOOD ASTRAGAL	1. 13' × 1. 75'	Attached w/ #10x 2' wd screws at 12'oc
12	CLOSED CELL FOAM STRIP	0,5'x,625'	FOAM TAPE FULL LENGTH OF SILL
13	Q'LON SEAL @ FRAME/PANELS	, 58' x 0, 65'	SCHLEGEL #QDS-650
14	Q'LON SEAL @ PANELS RAILS	, 335 ′ x , 336 ′	SCHLEGEL #QEZ320
15	WOOD RAISED PANEL	1, 50° x27, 5° x12°	SOLID PINE
16	1/2' LAMINATED GLASS	. 511° THICK	GLASSLAM
17	GLAZING CLEAR SILICONE	, 90x, 051	DOW CORNING 995

HARDWARE SCHEDULE

HINGES <18>:
 (4 HINGES/JAMB) 2 3/4" w X 4" h X . 068" HINGES @ 14" DC CONNECTED TO PANEL AND FRAME W/ (8)
 #10X 1 1/2" WS

ACTIVE & INACTIVE STILE

(20) CENTER HANDLE ROUSTIQUE ARTICLE CODE 042100 MODEL RY 59 FASTENED W/ (4) #10X 1 1/4' (7) 2.4' X 1.656' CLASSIC GUIDES (STEEL) W/ (2) #10X 1 1/4' EXCEPT TOP AND BOTTOM HAD (2) 1/8'X3' MS W/ DOUBLE NUTS. THE STRIKE PLATE WAS 1/4' THICK STEEL.

1/2' LOCKING THROW WAS A .625' DIAM SEMI-TUBE X.154'X35' LONG AT BOTTOM AND 57.5' LONG AT TOP. ALSO, THE TOP AND BOTTOM ENDS (3') WERE FILLED WITH A WELDED 1/8' WIDE STEEL PLATE.

MANUFACTURER:

Sabana Windows

6157 NW 167TH STREET UNIT F-25 MIAMI LAKES, FLORIDA 33015 PH.:(305) 825-1256 FAX:(305) 825-3805

PRODUCT:
Mahogany
Impact
Casement
Window

Engineering: EngCo Inc.

CA 8116 6971 W. Sunrise Blvd. 104 Plantation, Fl. 33313 Tel.: (954) 585-0304 Fax: (954) 585-0305

SEP 2 8 2005

Engineer Seal Pedro De Figueiredo PE 52609

Date: 9/27/05 Scale: NA Design by: PPMF

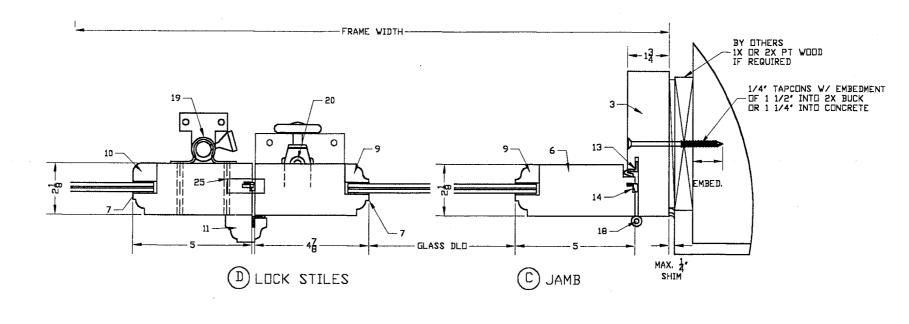
Miami Dade Office:

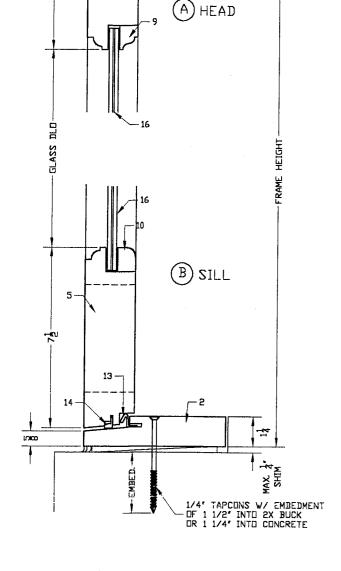
PRODUCT REVISED
as complying with the Florida
Building Codle
Acceptance No 05-1006.02
Expiration Date OCI. 7. 2007
By Mauuel July
Minay Dade Product Control
Division

Drawing Number 05-310

Sheet 4 of 11

MODEL C - SQUARE FRENCH SWING-OUT WINDOW DESIGNED LOADS = +53 PSF, -70 PSF



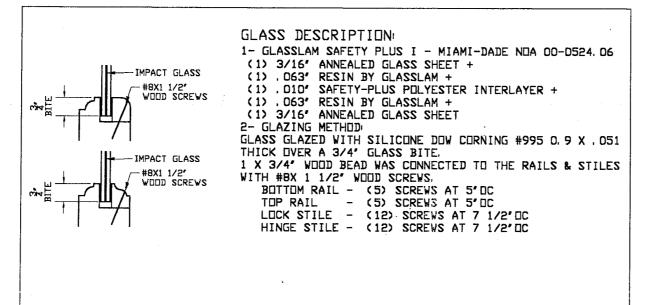


4

1/4' TAPCONS V/ EMBEDMENT -OF 1 1/2' INTO 2X BUCK OR 1 1/4' INTO CONCRETE

> BY OTHERS -1X OR 2X PT WOOD IF REQUIRED

> > MAX. 4



FRAME & PANEL GENERAL NOTES

1- FRAME ASSEMBLY NOTES: EACH SOLID MAHOGANY WOOD FRAME HEAD, SILL & JAMBS ARE 6' DEEP AND THE CORNERS ARE BUTT JOINED WITH WOOD GLUE AND FASTENED WITH (4) #14X3' WOOD SCREWS IN EACH CORNER.

2- PANEL ASSEMBLY NOTES: EACH SOLID MAHOGANY WOOD STILE & RAIL IS 2 1/8' DEEP AND THE CORNERS, 1/2'thick x3'x3' TENON AND WOOD GLUE JOINT,

3- INSTALLATION SEALANT NOTES: THE FRAME AND ALL EXPOSED INSTALLATION FASTENERS MUST BE PROPERLY SEALED WITH 'GE' STOCK GEO12A SILICONE.

MANUFACTURER: Sabana Windows

6157 NW 167TH STREET UNIT F-25 MIAMI LAKES, FLORIDA 33015 PH. (305) 825-1256 FAX: (305) 825-3805

PRODUCT:
Mahogany
Impact
Casement
Window

Engineering: EngCo Inc.

CA 8116 6971 W. Sunrise Blvd. 104 Plantation, Fl. 33313 Tel.: (954) 585—0304 Fax: (954) 585—0305



Engineer Seal Pedro De Figueiredo PE 52609

Date: 9/27/05 Scale: NA Design by: PPMF

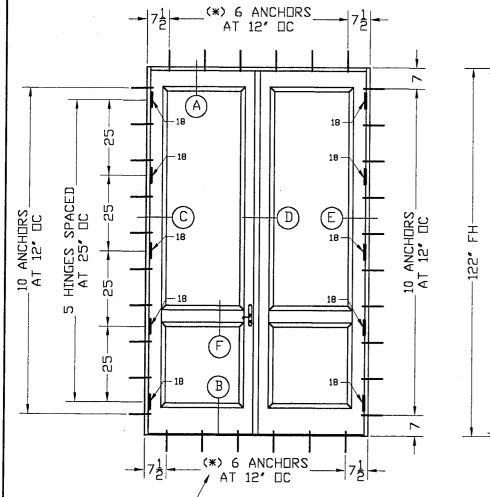
Miami Dade Office:

PRODUCT REVISED
as complying with the Florida
Buiding Code
Acceptance No 05-1006, 02
Expiration Date 067, 7, 2007
By Mullel Log
Minami Bade Product Control
Division

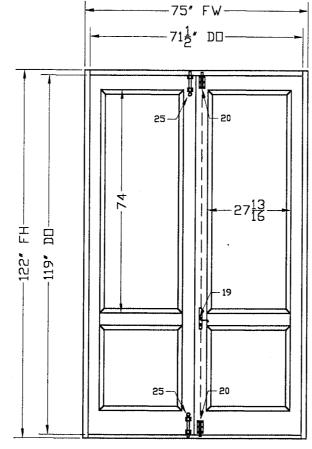
Drawing Number 05-310

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DUTSIDE ELEVATION



(*) INCREASE AMOUNT OF ANCHORS TO 7 AT 10 1/2' OC WHEN HEADER/SILL FRAMING ARE ANCHORED INTO CONCRETE VITH 1X WOOD BUCK



MODEL D - SOLID WOOD PANEL FRENCH SWING-DUT WINDOW DESIGNED LOADS = +53 PSF, -70 PSF

MAX. FRAME SIZE = 75" X 122"X 6" DEEP FRAME MAX. PANEL SIZE = 35 15/16" X 120 5/16" X 2 1/8" DEEP MAX. SOLID RAISED PANEL = 27 13/16 X 74 X 1 1/2" THICK WATER TEST PRESSURE: ±8 PSF (53, 33 DP)

INSTALLATION NOTES:

- 1- ANCHOR: 1/4" TAPCON BY ELCO SUBSTRATUM EMBEDMENT WDDD (SG)=, 55) 1 1/2" CONCRETE (3320 psi) 1 1/4" MASONRY BLOCK 1 1/4"
- 2- QUANTITY & SPACING AS PER ELEVATION

3- 1X OR 2X WOOD BUCK TO BE DESIGNED BY OTHERS FOR IMPOSED LOADS.

SEE SHEET 9 OF 11 FOR DETAILS

INSIDE ELEVATION

ITEM#	DESCRIPTION	SIZE	MATERIAL & REMARKS
1	FRAME HEADER	1, 75' x 6, 00' x 1, 25'	MAHDGANY WDDD
ż	FRAME SILL	1, 25' x 6, 00' x 0, 50'	MAHDGANY WOOD
3	FRAME JAMB	1, 75' x 6, 00' x 1, 25'	MAHOGANY WOOD
4	PANEL TOP RAIL		
5	PANEL BUTTOM RAIL	2, 13' x 5, 25' x 4, 25'	MAHDGANY WOOD
		2, 13" x 9, 75" x 9, 50"	MAHUGANY WOOD
6	PANEL HINGE STILE	2. 13' x 4. 89' x 3. 89'	MAHDGANY WOOD
<u>′</u>	PANEL LOCK STILE	2, 13' x 5, 13' x 4, 13'	MAHDGANY
8	RAISE PNL HOR, STILE	2, 13" x 6, 00" x 4, 00"	MAHDGANY
9	MAHDGANY WOOD BEAD	1, 00° x 0, 75°	Attached w/ #8x 1 1/2" wd screws
10	MAHDGANY WOOD BEAD	0, 75" x 1; 00"	Attached w/ #8x 1 1/2" wd screws
l 1	MAHOGANY WOOD ASTRAGAL	1, 13° x 1, 75°	Attached w/ #10x 2' wd screws at 12'oc
12	CLUSED CELL FUAM STRIP	0. 5' x . 625'	FOAM TAPE FULL LENGTH OF SILL
13	Q'LON SEAL @ FRAME/PANELS	.58' × 0.65'	SCHLEGEL #QDS-650
14	Q'LON SEAL & PANELS RAILS	, 335 " x , 336"	SCHLEGEL #QEZ320
15	RAISED PANEL	27. 8" x74" x1. 5" thk	SOLID PINE
16	SEALANT - CLEAR SILICONE		GE STOCK #012A
17	GLAZING CLEAR SILICONE	, 75x, 50x, 051 Thk	GE STOCK #012A

HARDWARE SCHEDULE

<18> HINGES:

(4 HINGES/JAMB) JARDINIER MASSARD, FRANCE, #23 SPACED AT 26' DC ATTACHED TO PANEL W/ (8) #10X 1 1/2' WS INACTIVE STILE

<25> JARDINIER MASSARD, FRANCE, VERROUS A ENTAILLER REF. 321 W/ .312' Diam. X .567 THROW AT TOP/BOTTOM.

ACTIVE STILE

<19> SCHELEGEL MULTI-BOLT LOCK WITH BRASS KEEP SET, 52 MM BA 10' FULL LENGTH STAINLESS. THE STRIKE PLATE WAS 1/4' THICK STEEL.

<20> NATIONAL 611" DIA THROW CONNECTED WITH (6) 1/4-20 SS MS AND NUTS IVES MODEL 453 WITH (4) 1/4-20 SS MS AND NUTS.

MANUFACTURER: Sabana Windows

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PRODUCT: Mahogany Impact Casement Window

Engineering: EngCo Inc.

CA 8116 6971 W. Sunrise Blvd. 104 Plantation, Fl. 33313 Tel.: (954) 585-0304 Fax: (954) 585-0305

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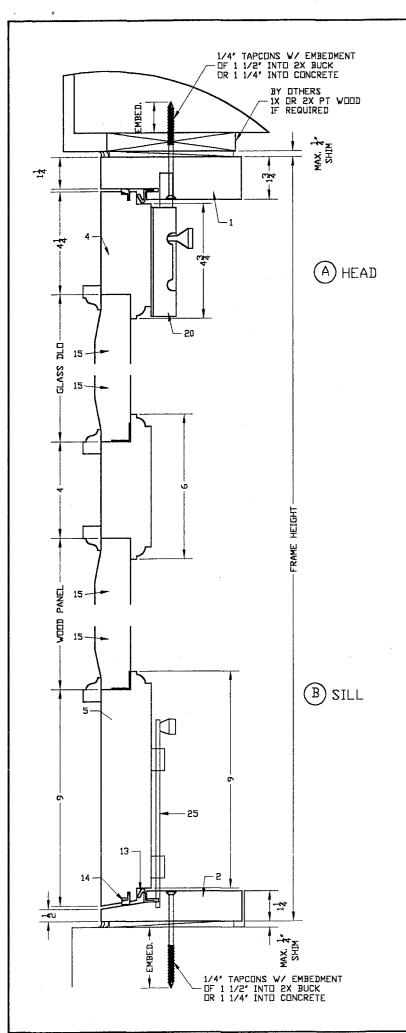
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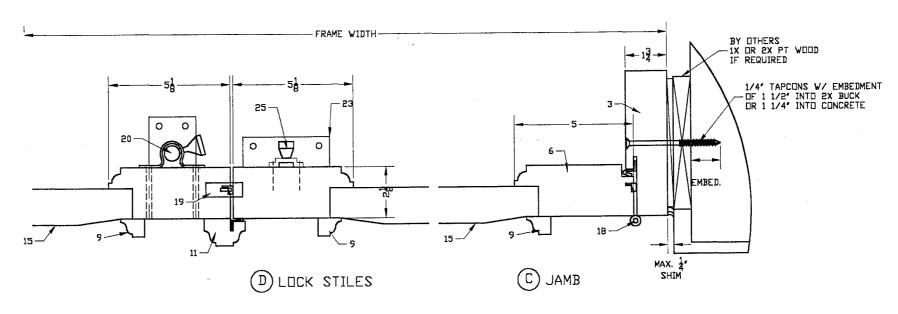
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> Sheet of 11



MODEL D - SOLID WOOD PANEL FRENCH SWING-OUT WINDOW DESIGNED LOADS = +53 PSF, -70 PSF



WOOD PANEL

#BX1 1/2'
WOOD
SCREWS

WOOD PANELS DESCRIPTION:

TOP: 27 13/16' X 74' X 1 1/2' THICK SOLID PINE WOOD PANEL PLACED IN A 3/4' X 1 1/4' BEDDING IN RAILS AND STILES AND A 3/4' X 3/4' X 1/2' X . 051' THICK CONTINUOUS GE WINDOW & WINDOW STOCK # GE012A CLEAR SILICONE BEAD. A 1/2 X 13/16 WOOD MOULDING CONNECTED WITH (6) #8X1 1/2' WOOD SCREWS PER STILE AND WITH (3) #8X 1 1/2' WOOD SCREWS PER RAIL.

BOTTOM 27 13/16' X 28 15/16' X 1 1/2' THICK SOLID PINE WOOD PANEL PLACED IN A 3/4' X 1 1/4' BEDDING IN RAILS AND STILES AND A 3/4' X 3/4' X 1/2' X .051' THICK CONTINUOUS GE WINDOW & WINDOW STOCK # GEO12A CLEAR SILICONE BEAD. A 1/2 X 13/16' WOOD MOULDING CONNECTED WITH (4) #8X1 1/2' WOOD SCREWS PER STILE AND WITH (4) #8X 1 1/2' WOOD SCREWS PER RAIL.

FRAME & PANEL GENERAL NOTES

1- FRAME ASSEMBLY NOTES:
EACH SOLID MAHOGANY WOOD FRAME
HEAD, SILL & JAMBS ARE 6' DEEP AND
THE CORNERS ARE BUTT JOINED WITH
WOOD GLUE AND FASTENED WITH (4)
#14X3' WOOD SCREWS IN EACH CORNER.

2- PANEL ASSEMBLY NOTES: EACH SOLID MAHDGANY WOOD STILE & RAIL IS 2 1/8' DEEP AND THE CORNERS, 1/2'thick x3'x3' TENON AND WOOD GLUE JOINT.

3- INSTALLATION SEALANT NOTES: THE FRAME AND ALL EXPOSED INSTALLATION FASTENERS MUST BE PROPERLY SEALED WITH 'GE' STOCK GEO12A SILICONE. MANUFACTURER: Sabana Windows

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Pedro De Figueiredo
PE 52609

Date: 9/27/05 Scale: NA Design by: PPMF

Miami Dade Office:

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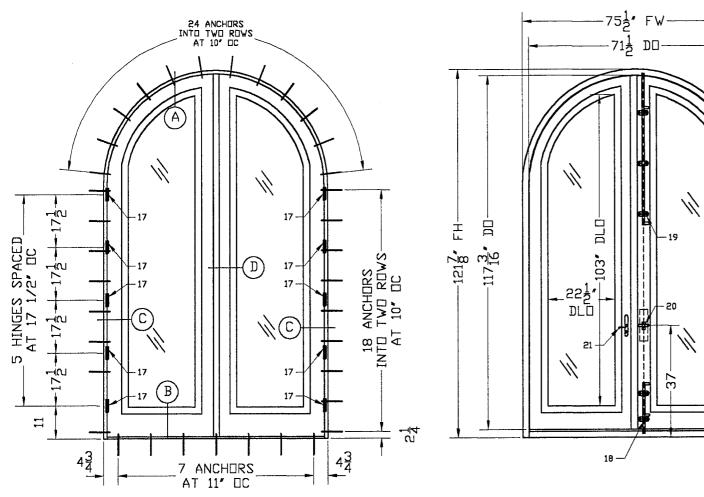
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Drawing Number 05-310

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DUTSIDE ELEVATION

INSIDE ELEVATION



MODEL E - FULL ARCHED FRENCH SWING-OUT WINDOW

DESIGNED LOADS = +75 PSF, -83 PSF

WATER TEST PRESSURE: ±11, 25 PSF (75 DP)

MAX. FRAME SIZE = 74 1/2" X 121 7/8"X 6" DEEP FRAME MAX. PANEL SIZE = 37 1/2" X 119 3/4" X 2 1/2" DEEP MAX. GLASS SIZE = 24 1/2" X 105" X .57" THICK MAX. GLASS DLD = 22 1/2" X 103"

INSTALLATION NOTES:

1- ANCHOR: 1/4' TAPCON BY ELCO SUBSTRATUM EMBEDMENT WOOD (SG>=, 55) 1 1/2' CONCRETE (3320 psi) 1 1/4' MASONRY BLOCK 1 1/4'

2- QUANTITY & SPACING AS PER ELEVATION

3- 1X DR 2X WOOD BUCK TO BE DESIGNED BY OTHERS FOR IMPOSED LOADS.

SEE SHEET 11 OF 11 FOR DETAILS

ITEM#	DESCRIPTION	SIZE	REMARKS	
1	FRAME (ARCH HEADER)	2,00° × 6,00°	LAMINATED MAHDGANY	
2	FRAME (JAMB)	2.00° × 6.00°	LAMINATED MAHDGANY	
3	FRAME (SILL)	2.00° x 6.00°	LAMINATED MAHDGANY	
4	FRAME (SILL BUMPER)	0.69" × 1.75"	LAMINATED MAHDGANY	ŧ
5	SASH (ARCH RAIL)	2, 60° × 6, 62°	LAMINATED MAHDGANY	
6	SASH (BOTTOM RAIL)	2, 60° × 9, 21°	LAMINATED MAHDGANY	
7	SASH (HINGE RAIL)	2, 60° × 6, 50°	LAMINATED MAHOGANY	
8	SASH (LOCK RAIL)	2.60° × 6.44°	LAMINATED MAHDGANY	
9	SASH (INACTIVE RAIL)	2, 60° × 6, 44°	LAMINATED MAHDGANY	
10	SASH (EXT. GLASS STOP)	2. 25° x 1. 69°	LAMINATED MAHDGANY	
10A	SASH (INT. GLASS STOP)	2. 25° × 1. 69°	LAMINATED MAHOGANY	
11	SASH (INT. ASTRAGAL)	2, 25° x 2, 06°	LAMINATED MAHDGANY	
12	BOTTOM & HINGE REINF.	1.00° x 0.25°	STEEL	
13	ASTRAGAL REINF.	0.63° × 0.63°	STEEL	
14	LOCK RAIL REINF.	O. 25' CHANNEL	STEEL.	•
15	WEATHER STRIPPING	QEBD6650-B97	VINYL	
16	WEATHER STRIPPING	QEZ-320-BRZ	VINYL	

HARDWARE SCHEDULE

<17> HINGES:

(5 HINGES/JAMB) MADE BY SABANA WINDOWS INSTALLED AT 17 1/2" OC

INACTIVE STILE:

(19) & (18) SURFACE BOLTS MADE BY SABANA WINDOWS CONSISTED OF 50'(TOP) AND 16 3/4' (BOTTOM) LONG x .75' DIAMETER STEEL ROD WITH TWO 1' DIAMETER RINGS WELDED 3 1/2' AND 19 3/4' FROM END OF THE ROD . THE ROD WAS SUPPORTED BY THREE 2 X 3 1/8' X 1/4' THICK STEEL GUIDE PLATES WITH 1 3/8' RINGS WELDED AT TOP EACH PLATE TO GUIDE THE LOCKING ROD. THE ROD PENETRATED 1' THROUGH THE FRAME MOULDING, THE TOP MOST PLATE WAS CENTERED 1 3/4' FROM EDGE OF WINDOW (20) TWO POINT LOCK WITH 3/4' DIAMETER STEEL RODS EXTENDING 1' THROUGH FIX PANEL LOCK STILE AND INTO FRAME GOING THROUGH FRAME AND SASH LOCK REINFORCEMENT PLATES. THE LOCK WAS OPERATED BY A HANDLE AT AT 37' FROM BOTTOM OF WINDOW.

ACTIVE STILE

(21) MUL-T-LOCK MODEL SERIES 700 LOCK, SINGLE LATCH ONLY.

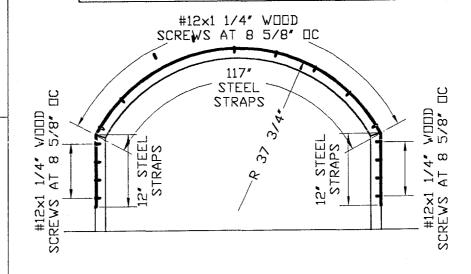
ARCH STRAP CONSTRUCTION:

THE CURVE HEAD AND THE JAMBS WERE BUTT JOINED

USING 1/4X3X1/2' TENON AND GLUE. THE STEEL STRAP

MADE OF 1/4X2X141' WAS ATTACHED TO WOOD FRAMING

WITH (17) #12X1 1/4' WOOD SCREWS.



MANUFACTURER: Sabana Windows

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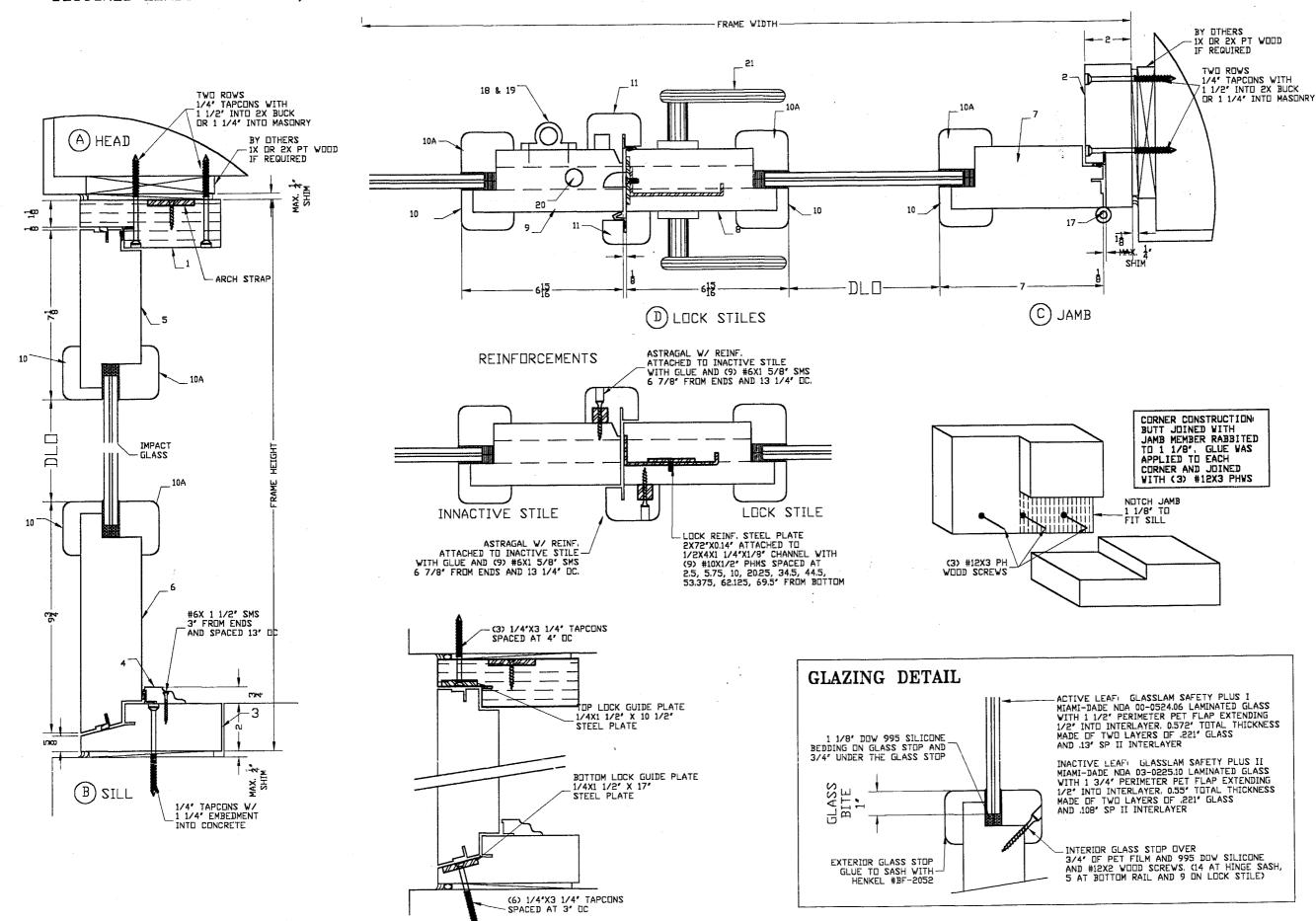
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MODEL E - FULL ARCHED FRENCH SWING-DUT WINDOW DESIGNED LOADS = +75 PSF, -83 PSF



MANUFACTURER: Sabana

Windows 6157 NW 167TH STREET

UNIT F-25 MIAMI LAKES, FLORIDA 33015 PH. (305) 825-1256 FAX: (305) 825-3805

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> Drawing Number 05 - 310

> > Sheet 11 of 11